

The Token Hunter

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Issue: 3

N.U.T.S.

National Utah Token Society



Gold Coin in each Month's Raffle

Next Meeting
March 24th
Columbus Community
Center
2500 S. 500 E.
Room 105 7:00 PM

P.O. Box 651071, Salt Lake City, UT 84165 - www.UtahTokenSociety.com - NutsTokenHunter@gmail.com

President's Message

Get ready for our club meeting on March 24th! We are looking forward to having a good time.

If you have been detecting and have found some great items, it is time to bring them for Finds of the Month, which is starting this month.

We will be voting on this year's Club Medal at the upcoming meeting and hope to have a lot of your amazing designs to choose from.

This meeting will also feature our first NUTS Club Chili Cook-off! Prizes will be given for first through third place as we all vote for our favorite chili. Those not making chili are asked to bring a bread item (breadsticks, rolls, etc).

For all those present at the meeting who have renewed, we will have a drawing for a special prize. We welcome all new members and hope that you continue to invite others to join us.

If anyone has any ideas for a group outing area, please let us know and we will work toward finding a good time to go. The club cannot host outings due to the liabilities. If you have plans to go out and would like some company, feel free to bring it up at the meeting.

Thank you for your support.



Events

Northern Utah Coin Show
April 14 - 16, Thur. 2pm-7pm,
Fri. & Sat. 10am-7pm
1651 N. 700 W., Layton

Treats - Chili Cook Off

March's - Everyone please bring
chili or a bread item (breadsticks)

Membership Fees

Individual: \$12

Family: \$18

Please bring guests!!!

How to get Christmas Raffle Tickets Throughout the Year

- 1 for monthly attendance,
- 1 for bringing treats (dessert and drink),
- 1 for being an officer/wagon master each month,
- 1 for each hour serving at the coin/token show,
- 1 for submitting an article,
- 1 for referral that joins club,
- 1 for member spotlight or special find in the news,
- 1 purchasing prizes for the raffle per month

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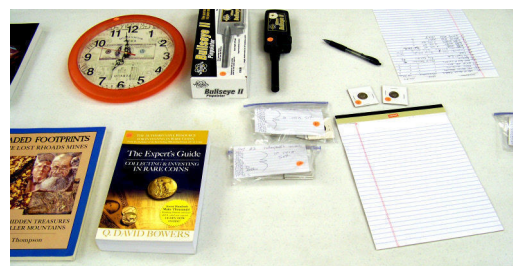
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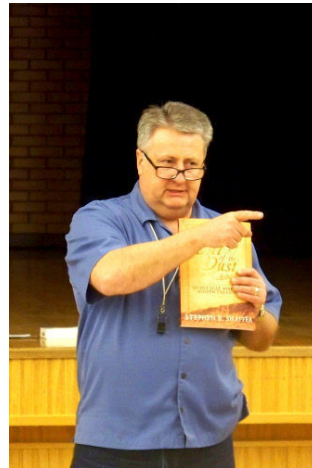
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Club Auction

This year's auctioneer we had Bob Campbell. Thank you, it was very fun.



More Club Auction Photos



February's Meeting



Welcome Guests and New Members



News

2016 National Money Show



Photos courtesy of the American Numismatics Association



The Heritage Auction at the National Money Show had a Proof 1842 small date quarter that went for \$88,125 and a Proof-like MS-63 1889 Carson City \$1 dollar that realized \$58,750.

The show had 2,585 people that attended 1,100 were from the public.

ANA Summer Seminar

Session 1 starts June 18-23, second session is June 25-30.

United State Mint releasing National Park Commemorative on March 26th.

The gold coin makes John Muir look like a zombie, maybe it's just the lighting.

Bullion

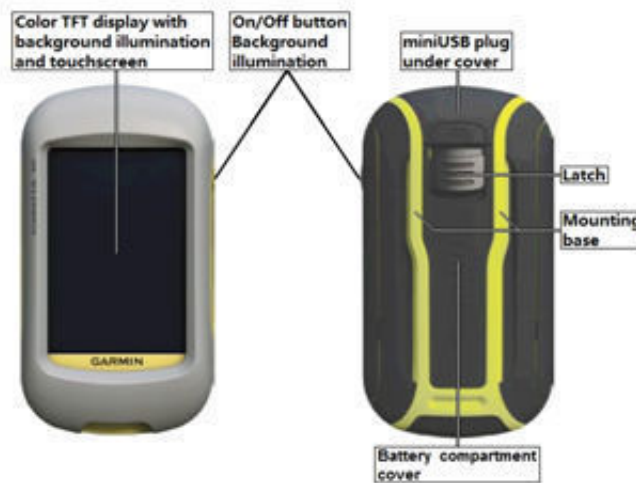
Gold: \$1255.70 ▲ +\$28.4 - Silver: \$15.83 ▲ +\$0.42

The Use of GPS in Geology and Paleontology

By Christtelle Sampson

GPS stands for Global Positioning System. This article will cover some basics of GPS and how to incorporate it into field work for Geology and Paleontology. GPS is a system of at least 24 satellites, called the NAVSTAR Global Positioning System. (NASA) NAVSTAR is short for Navigation Signal Timing and Ranging. There is also the Russian GLONASS satellite system. (Single Track World) GLONASS stands for Globalnaya Navigazionnaya Sputnikovaya Sistema, or Global Navigation Satellite System. A GPS device uses 4 or more satellites to tell position, speed, and elevation. (eBay) There are many different brands, but the only one our local outdoor equipment retailers carry is Garmin. They offer a wide variety of options and prices, which are mostly a matter of personal preference. The features that are important for our purposes are:

- Color screen – helps with navigation and marking waypoints.
- Topographic maps – helps watch for steep hills and cliffs, and determine route.
- Accepts data cards – helps organize maps and information on different cards.
- Barometric altimeter – tells elevation change, which can affect the body and equipment.
- Changeable batteries – rechargeable units are not practical when one is away from electrical outlets for extended periods of time.
- Size/weight – can be important to some people, especially if they are small like me.
- Some people recommend buttons over the touch screens because their hands get very dirty and grimy out in the field.



One of the most important things for the user to remember is that a GPS is meant to be a supplement for a map and compass. Never rely on a GPS alone. REI recommends the 1:24,000 scale maps from the United States Geological Survey, also known as USGS. These are supposed to be the most accurate and updated maps available. It is also helpful brush up on how to read latitude and longitude coordinates. Some important conversions are "latitude difference in meters = latitude difference in decimal degrees x 111,300 m/deg," and "longitude difference in meters = longitude difference in decimal degrees x 85,300 m/deg (near 40° N)." (Colorado)

REI offers great workshops on using GPS. They start with the 4 basic functions: give a location, point-to-point navigation, route navigation, and keep a track. This basically means it will tell you where you've been, where you're going, how to get there, and how to get back – all very essential things to know if you are in unfamiliar backcountry. They are simple to use, but vary slightly with each different unit. These features are easily found by going through the menu.

Most modern GPS units have a magnetic compass sensor, which is basically useless and a waste of power because experienced GPS users recommend using a traditional capsule compass.

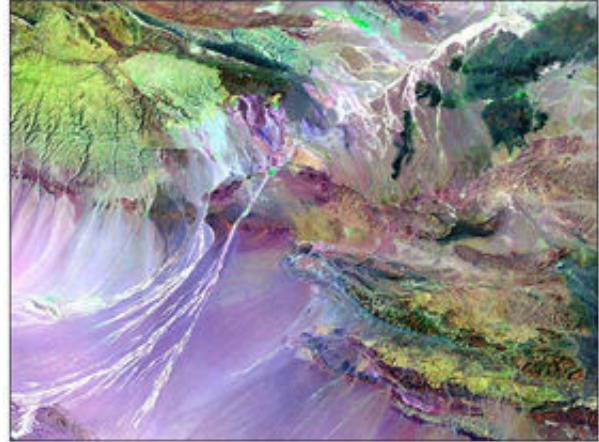
A GPS receiver isn't very accurate if there are obstacles in the way of the satellite signal, like trees or buildings. A good signal can be obtained by getting out into the open.

GPS units allow users to mark "waypoints," which is like putting pins in a map. The first, and most important, waypoint to mark on an expedition is the location of the vehicle. Next, waypoints are used to mark the location of each find, along with notes as to what is at that site. If it is a large site, multiple waypoints are used to mark the edges or and/or gridlines.

Geologists and paleontologists have started using GPS and other satellite maps to help find different patterns on the surface of the Earth. This can increase the odds of finding fossils and other artifacts, for those who know what they are looking for.

(Coninued)
By Christelle Sampson

Landsat is short for Land Satellite, and is "any of various satellites used to gather data for images of the Earth's land surface and coastal regions." (Dictionary.com) The Landsat Program is a series of Earth-observing satellite missions jointly managed by NASA and the U.S. Geological Survey. (USGS.gov) "With Landsat 5 and 7 data the scientists can identify areas comprised of sedimentary rocks where vegetation is sparse, requirements for good fossil sites." (NASA) Here are two images taken of the Gobi desert. The first is visible light. The second uses infrared, near infrared, and blue bands so vegetation, rocks and soil will stand out clearly.

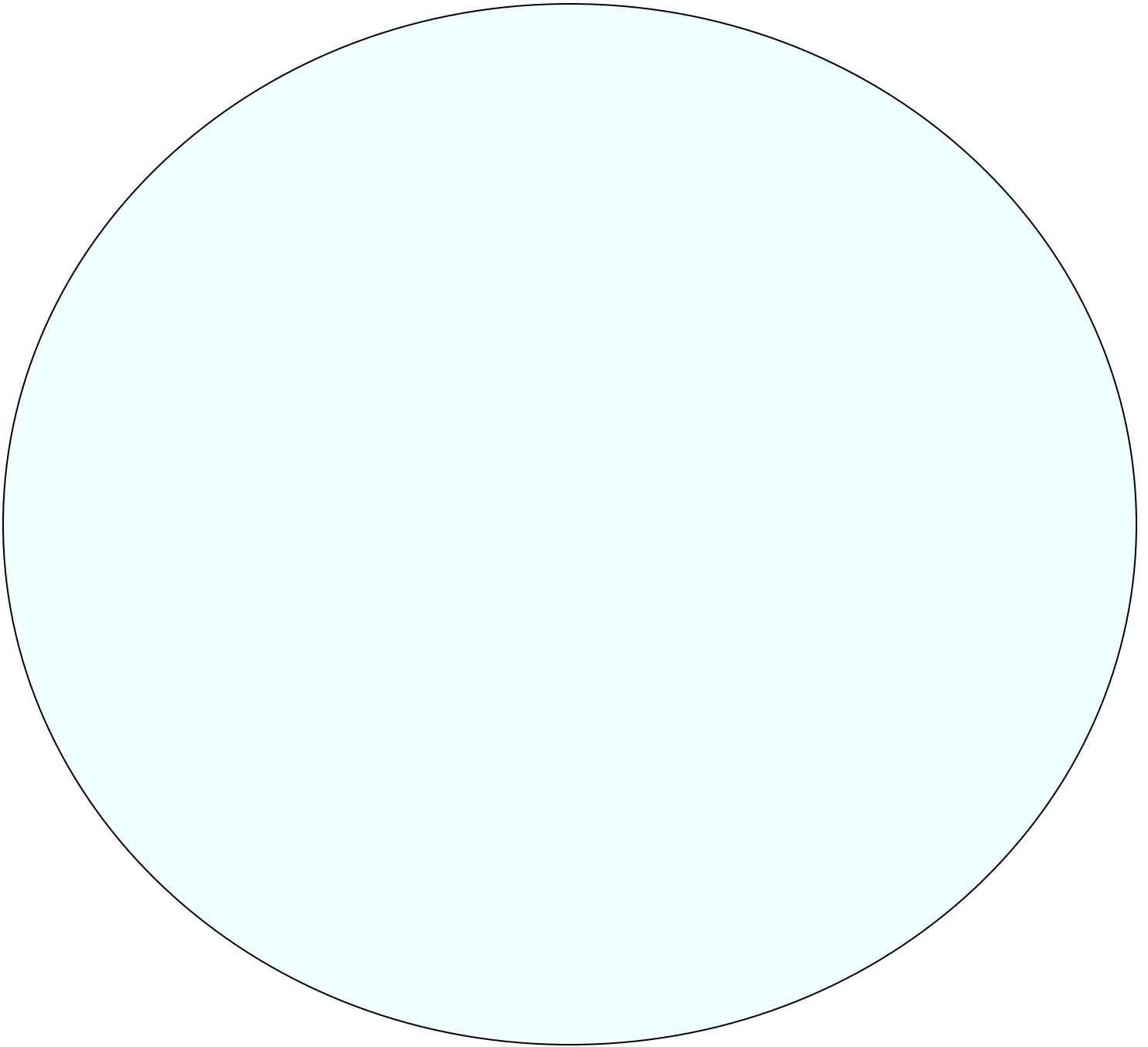


It is explained that the way these dinosaurs died caused the conditions paleontologists look for in finding them. "These animals were trapped and buried in sediments in a number of different ways during the late Cretaceous Period. Some were taken by flash floods and were buried in flood plains. Some drowned in lakes and were covered by silt. Still others were swallowed by sandstorms. However... the best-preserved fossils from Ukhaa Tolgod came about as a result of collapsing sand dunes. Stable, non-drifting sand dunes formed at and around the marshlands and small ponds back then. The dinosaurs would hunker down in these dune fields and make their nests... Sometimes the dunes, which were often many stories high, would become unstable. During a heavy rain, the top layers of sand on the dune would slide down its sides like an avalanche, catching dinosaurs unaware below and covering them instantly as they were nesting, fighting, or collecting food (Loope et al., 1998)." (NASA) It takes experience to watch for these particular conditions, or to figure out other things to look for, but hopefully this will be a good start.

Works Cited

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Satellite image: <http://earthobservatory.nasa.gov/IOTD/view.php?id=602&src=ve>

N.U.T.S. MEDAL DESIGN SUBMISSION



NUTS members it is time to submit your designs for the club medal. There is no specific theme required for the medal. Photographs may be used for a design as well as artwork. If a photo is used it needs to be sharp and clear with distinct lines. For example pictures of buildings work well. **Remember permission must be obtained to use copyrighted material.**

Name: _____

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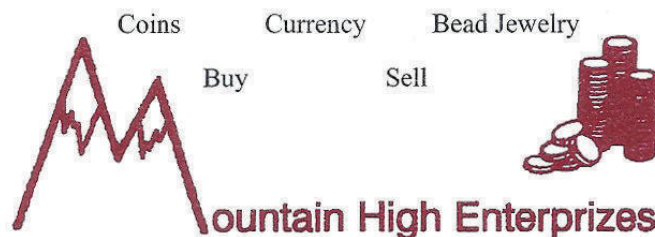
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